

Question No. Problem 2.2

2. The voltage regulator circuit in Fig. 2.2.1 is

Consider: $V_{BE1} = 0.7V$

Fig. 2.2.1 (a)



2.2.1

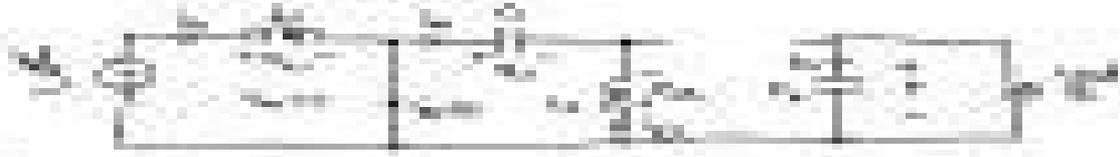
Find output and current for each resistor and regulator. Indicate direction of current and voltage polarity as indicated.



$V_{Zener} = 5V$
 $I_{Zmax} = 10mA$

Given: $R1 = 10k\Omega$, $R2 = 10k\Omega$, $R3 = 10k\Omega$, $R4 = 10k\Omega$

Assume $V_{BE1} = 0.7V$, $V_{BE2} = 0.7V$
circuit diagram



2.2.2

Find the current to be provided to give desired output of voltage and current. The same circuit can be drawn using all components.

Indicate voltage and regulator currents for this circuit.

$$V_{in} = 10V, \quad V_{Zener} = 5V, \quad I_{Zmax} = 10mA, \quad I_{out} = 10mA, \quad R1 = 10k\Omega, \quad R2 = 10k\Omega, \quad R3 = 10k\Omega, \quad R4 = 10k\Omega$$

Fundamentals Of Power Electronics Solution Manual

Terry C. Jones



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The IGBT Device B. Jayant Baliga, 2022-11-25 The IGBT Device Physics Design and Applications of the Insulated Gate Bipolar Transistor Second Edition provides the essential information needed by applications engineers to design new products using the device in sectors including consumer industrial lighting transportation medical and renewable energy The IGBT device has proven to be a highly important Power Semiconductor providing the basis for adjustable speed motor drives used in air conditioning and refrigeration and railway locomotives electronic ignition systems for gasoline powered motor vehicles and energy saving compact fluorescent light bulbs The book presents recent applications in plasma displays flat screen TVs and electric power transmission systems alternative energy systems and energy storage but it is also used in all renewable energy generation systems including solar and wind power This book is the first available on the applications of the IGBT It will unlock IGBT for a new generation of engineering applications making it essential reading for a wide audience of electrical and design engineers as well as an important publication for semiconductor specialists Presents essential design information for applications engineers utilizing IGBTs in the consumer industrial lighting transportation medical and renewable energy sectors Teaches the methodology for the design of IGBT chips including edge terminations cell topologies gate layouts and integrated current sensors Covers applications of the IGBT a device manufactured around the world by more than a dozen companies with sales exceeding 5 Billion Written by the inventor of the device this is the first book to highlight the key role of the IGBT in enabling electric vehicles and renewable energy systems with global impacts on climate change

Solutions Manual for Introduction to Modern Power Electronics Andrzej M. Trzynadlowski, 2000-06-05 A concise thorough introduction to modern power electronics This comprehensive overview of the modern tools and techniques of electric power conversion covers the fundamentals of power electronics Unlike other textbooks on the subject which often include a great deal of extraneous information Introduction to Modern Power Electronics presents essential material that can be covered easily in a one semester course This streamlined text examines low medium and high power conversion issues and the electronic converters that process power for a variety of applications Following recent trends in power electronics technology greater stress is placed on pulse width modulated PWM converters than in any other textbook Modern power electronic converters such as the resonant dc link and multilevel inverters or matrix converters are thoroughly covered Special features include Comprehensive easy to understand coverage of the principles and methods of electric power conversion using a hypothetical generic power converter Descriptions of various types of semiconductor power switches and complementary components and systems for power electronic converters In depth discussions of all power conversion types ac to dc ac to ac dc to dc and dc to ac Separate chapter on switching power supplies A companion set of 48 PSpice circuit files available on the Internet constitutes a virtual laboratory of power electronics This valuable teaching tool contains models of most of the power electronic converters and techniques covered in the book It gives students the opportunity to

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Erickson, Dragan Maksimovic, 2001-01-31 Fundamentals of Power Electronics Second Edition is an up to date and authoritative text and reference book on power electronics This new edition retains the original objective and philosophy of focusing on the fundamental principles models and technical requirements needed for designing practical power electronic systems while adding a wealth of new material Improved features of this new edition include A new chapter on input filters showing how to design single and multiple section filters Major revisions of material on averaged switch modeling low harmonic rectifiers and the chapter on AC modeling of the discontinuous conduction mode New material on soft switching active clamp snubbers zero voltage transition full bridge converter and auxiliary resonant commutated pole Also new sections on design of multiple winding magnetic and resonant inverter design Additional appendices on Computer Simulation of Converters using averaged switch modeling and Middlebrook's Extra Element Theorem including four tutorial examples and Expanded treatment of current programmed control with complete results for basic converters and much more This edition includes many new examples illustrations and exercises to guide students and professionals through the intricacies of power electronics design Fundamentals of Power Electronics Second Edition is intended for use in introductory power electronics courses and related fields for both senior undergraduates and first year graduate students interested in converter circuits and electronics control systems and magnetic and power systems It will also be an invaluable reference for professionals working in power electronics power conversion and analog and digital electronics

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